

## STATE OF COLORADO

John W. Hickenlooper, Governor  
 Christopher E. Urbina, MD, MPH  
 Executive Director and Chief Medical Officer

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.      Laboratory Services Division  
 Denver, Colorado 80246-1530      8100 Lowry Blvd.  
 Phone (303) 692-2000      Denver, Colorado 80230-6928  
 Located in Glendale, Colorado      (303) 692-3090  
<http://www.cdphe.state.co.us>



Colorado Department  
 of Public Health  
 and Environment

JUL 19 2011

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JUL 21 2011

Per \_\_\_\_\_

Water Remediation Technology LLC  
 9500 W. 49th Avenue, Suite D100  
 Wheat Ridge, CO 80033

Subject: **Compliance Inspection Notice, Colorado Radioactive Materials License Number 1177-01**

Attention: Theodore G. Adams, RSO

This letter refers to the inspection of Water Remediation Technology LLC conducted on April 20, 2011 by Mr. James Grice of this Department.

The inspection examined activities conducted under your license as they relate to safety and security and compliance with the *Colorado Rules and Regulations Pertaining to Radiation Control* 6CCR 1007-1 (the Regulations), Orders, and the conditions of your license. Within these areas, the inspection consisted of selected examinations of procedures and representative records, observations of activities, independent radiation measurements, and interviews with personnel.

Based on the results of this inspection, no violations were identified within the scope of this inspection.

However, the following Item of Concern was noted during the inspection and warrants your attention. A written response to this item is required.

Item of Concern:

- A. The efficiency of the water treatment absorptive media for Uranium removal has been observed, through direct measurement, to be higher than expected and, consequently, the loading of Uranium on the media is greater than originally expected. As a result of this the media has loaded Uranium at greater concentration than originally anticipated which will require a license amendment to increase the authorization from 54,000 pCi/g to the revised expected maximum of 121,000 pCi/g. The maximum concentration within the stage one vessel at the time of the inspection was calculated to be Approximately 72,000 pCi/g.

The response should be in the form of an amendment request to increase the concentration of Uranium that can be bound to water treatment absorptive media to 121,000 pCi/g. Additionally, as a result of this increase, a request for an increase to the total activity of Uranium that can be possessed and handled from 1.14 Ci to 2 Ci should be included in the amendment request.

As required by RH 10.2 of the Regulations, this notice must be posted so as to permit individuals engaged in licensed activities to observe it on the way to or from any particular licensed activity location to which the document applies. Any acknowledgment to this report by the licensee shall be posted within five (5) working days after dispatched by the licensee. Such documents shall remain posted for a minimum of five (5) working days or until actions correcting any identified violations have been completed, whichever is later.

If you have any questions concerning this letter, please contact Mr. James H. Grice III of the Radiation Management Unit at (303) 692-3371.

A handwritten signature in cursive script that reads "Ed Stroud".

Ed Stroud, Lead of Compliance  
Radiation Management Unit  
Hazardous Materials and Waste Management Division